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**“जानने का अधिकार, जीने का अधिकार”**

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

**“पुराने को छोड़ नये के तरफ”**

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10154 (1982): Blade Plate, Osteotomy,  
Wainwright-hammond's Pattern [MHD 2: Orthopaedic  
Instruments, Implants and Accessories]

**“ज्ञान से एक नये भारत का निर्माण”**

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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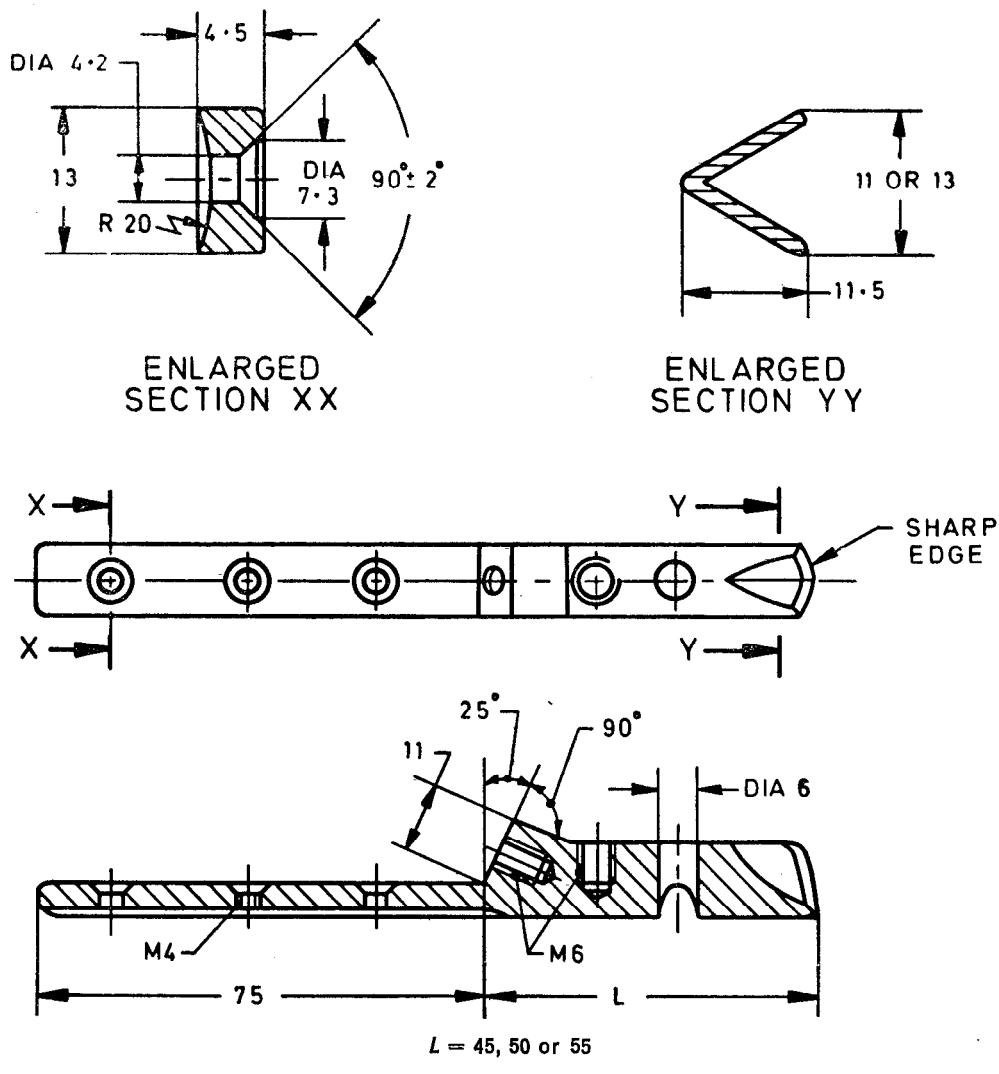


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**Indian Standard**  
**SPECIFICATION FOR BLADE PLATE, OSTEOTOMY,  
WAINWRIGHT-HAMMOND'S PATTERN**

**1. Scope** — Covers dimensional and other requirements for Wainwright-Hammond's pattern osteotomy blade plates used as implant in orthopaedic surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.



**FIG. 1 BLADE PLATE, OSTEOTOMY, WAINWRIGHT-HAMMOND'S PATTERN**

**2.1** Deviation of  $\pm 2.5$  percent shall be permitted on all dimensions where not otherwise specified.

**3. Material** — Any of the materials specified in 3 of IS : 5347-1979 ' General requirements for metal surgical implants (*first revision*) '.

**4. Workmanship and Finish**

**4.1** The bone plate shall be made in one piece to give the required shape.

**4.2** The holes shall be uniform in spacing and shall be symmetrical with respect to the central line.

**4.3** The blade portion shall be formed in V-shape and the tip of the blade shall be sharp.

**4.4** A hole shall be provided for transfixing a screw in the blade portion which gives an additional compression for rapid union.

**4.5** All sharp edges shall be removed except the tip of the blade.

**4.6** The threads, wherever provided, shall be well formed and clean.

**4.7** The plate shall be free from pits, cracks, burrs, blemishes and other surface defects, when examined under a magnification of 10 X.

**4.8** The plate shall be electropolished and passivated.

**5. Tests**

**5.1** *Corrosion Resistance Test* — As per 6.1 of IS : 5347-1979.

**6. Marking** — As per 5.1 of IS : 5347-1979.

**6.1** *ISI Certification Marking* — Details available with the Indian Standards Institution.

**7. Packing** — The blades shall be packed as agreed to between the purchaser and the supplier. However, it is recommended that each blade may be wrapped in polyethylene bags or in waxed paper and then packed in cartons.